

IN THE U.S. PATENT AND TRADEMARK OFFICE  
Patent Application Transmittal Letter

COMMISSIONER FOR PATENTS  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility ☐ Design

☒ original patent application,  
☐ continuation-in-part application



INVENTOR(S): **Daniel Sobek et al.**

TITLE: **MICROFLUIDIC BULK FLOW DETERMINATIONS  
BASED ON CONVERTING HEAT TRACER MEASUREMENTS**

Enclosed are:

☒ The Declaration and Power of Attorney. ☒ signed ☐ unsigned or partially signed  
☒ 9 sheets of drawings (one set) ☐ Associate Power of Attorney  
☐ Form PTO-1449 ☒ Information Disclosure Statement and Form PTO-1449  
☐ Priority document(s) ☐ (Other) \_\_\_\_\_ (fee \$ \_\_\_\_\_)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	24 — 20	4	X \$18	\$ 72
INDEPENDENT CLAIMS	3 — 3	0	X \$84	\$ 0
ANY MULTIPLE DEPENDENT CLAIMS	0		\$280	\$ 0
BASIC FEE: Design ( \$330.00 ); Utility ( \$750.00 )				\$ 750
TOTAL FILING FEE				\$ 822
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 822

Charge \$ 822 to Deposit Account 50-1078. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 50-1078 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 50-1078 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. EU782689977US

Date of Deposit Sept. 30, 2003

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By Judith E. Brown  
Typed Name: Judith E. Brown

Respectfully submitted,

Daniel Sobek et al.

By

Terry McHugh  
Terry McHugh

Attorney/Agent for Applicant(s)

Reg. No. 33,261

Date: Sept. 30, 2003

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PATENT APPLICATION  
Attorney Docket No. 10030605-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

This is a U.S. Patent Application for:

Title Line #1: \* MICROFLUIDIC BULK FLOW DETERMINATIONS  
Title Line #2: \* BASED ON CONVERTING HEAT TRACER MEASUREMENTS

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By



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